Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

MCA – SEMESTER IV • EXAMINATION – SUMMER 2016

Subject Code: 2640006 **Date:04-06-2016**

Subject Name: Distributed Computing

Time: 10.30a.m. To 01.00p.m. **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	What is servlet?	**02**
	(b)	What do you mean by toolkits?	**02**
	(c)	XNS Stands for?	**02**
	(d)	The main purpose of RFC 1 was?	**02**
	(e)	What do you mean by child process?	**02**
	(f)	What is the mean of network services?	**02**
	(g)	What is data marshalling	**02**
Q.2	**(a)**	What are the various data encoding standards? Explain in detail.	**07**
	(b)	Draw and explain HTTP event diagram.	**07**
		OR	
	(b)	Differentiate between the following Mobile agent paradigm and Message system paradigm Connection oriented and connectionless services	**07**
Q.3	**(a)**	Explain the concept of secure socket API and SSL	**04**
	(b)	**(1)** Explain the importance of Time to Live in the multicasting API context.	**03**
		(2) According to three layer software architecture, explain daytime client server using connectionless datagram socket.	**07**
		OR	
Q.3	**(a)**	Explain with example how to join a multicast group, how to send the messages in the group and how to receive the messages.	**07**
	(b)	What is RMI? Draw and explain Java RMI architecture. Show diagrammatically how stub-skeleton interaction is done?	**07**
Q.4	**(a)**	Explain Datagram Sockets and its implementation in Java.	**07**
	(b)	Discuss any one technique which is used to transfer the client-side session state .Data with suitable example and figures.	**07**
		OR	
Q.4	**(a)**	With the diagram explain web service infrastructure and stepwise communication.	**07**
	(b)	Write short note on REST	**07**
Q.5	**(a)**	Explain SOAP. Explain its architecture in detail.	**07**
	(b)	Discuss advantages and disadvantages of web services over the other technologies.	**07**
		OR	
Q.5	**(a)**	Explain reliable multicasting. Discuss various classifications for reliable multicast system.	**07**
	(b)	Describe XML PATH and XML Tree.	**07**

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